FIG. 1

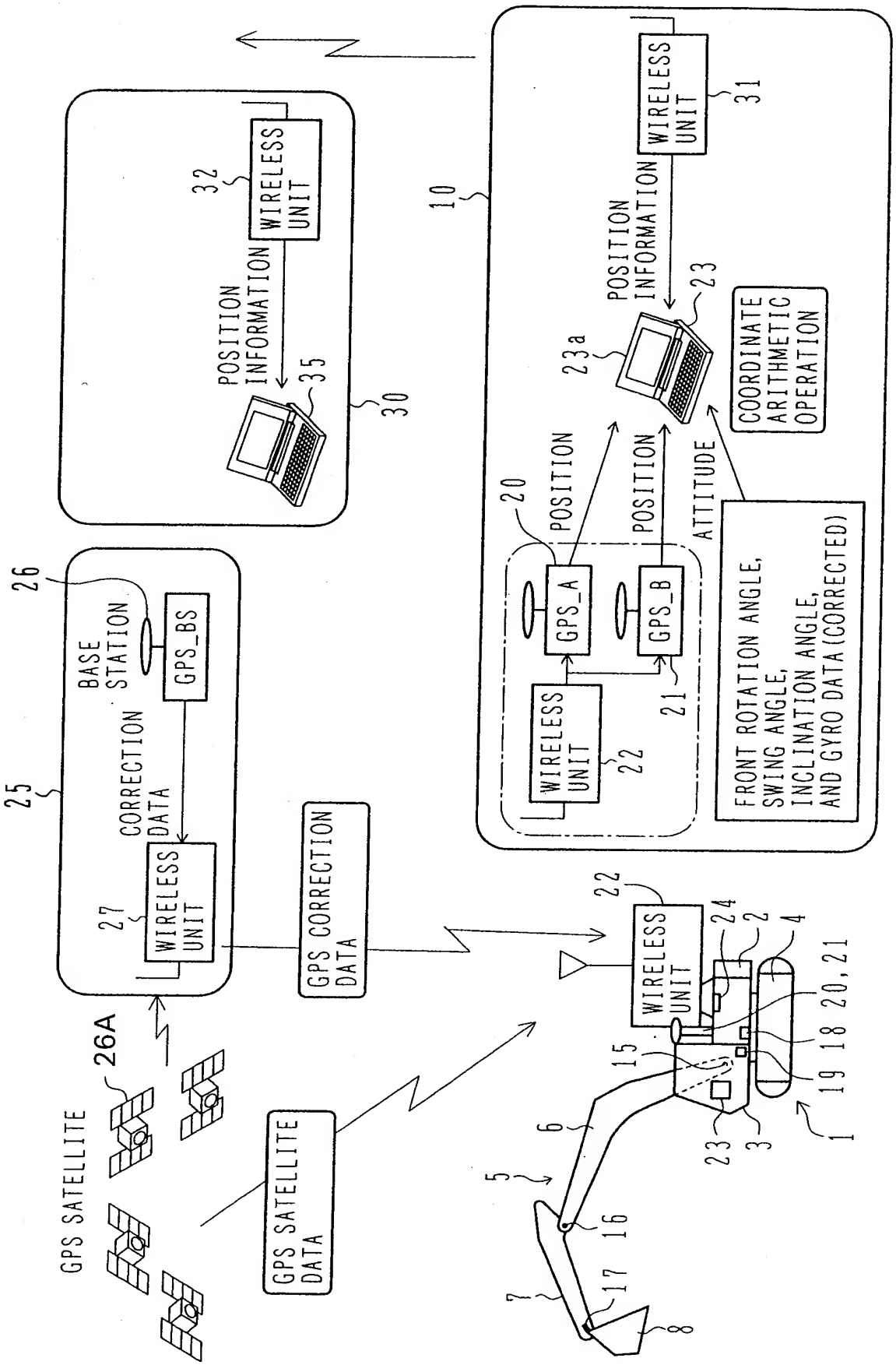

GPS SATELLITE
26A
GPS SATELLITE DATA
25
26
BASE STATION
GPS_BS
CORRECTION DATA
27
WIRELESS UNIT
GPS CORRECTION DATA
30
32
WIRELESS UNIT
POSITION INFORMATION
35
10
WIRELESS UNIT
31
POSITION INFORMATION
23
23a
COORDINATE ARITHMETIC OPERATION
20
POSITION
POSITION
ATTITUDE
GPS_A
GPS_B
21
WIRELESS UNIT
22
FRONT ROTATION ANGLE, SWING ANGLE, INCLINATION ANGLE, AND GYRO DATA (CORRECTED)
22
WIRELESS UNIT
24
2
4
15
6
5
16
17
7
8
23
3
1
19 18 20, 21

FIG. 9

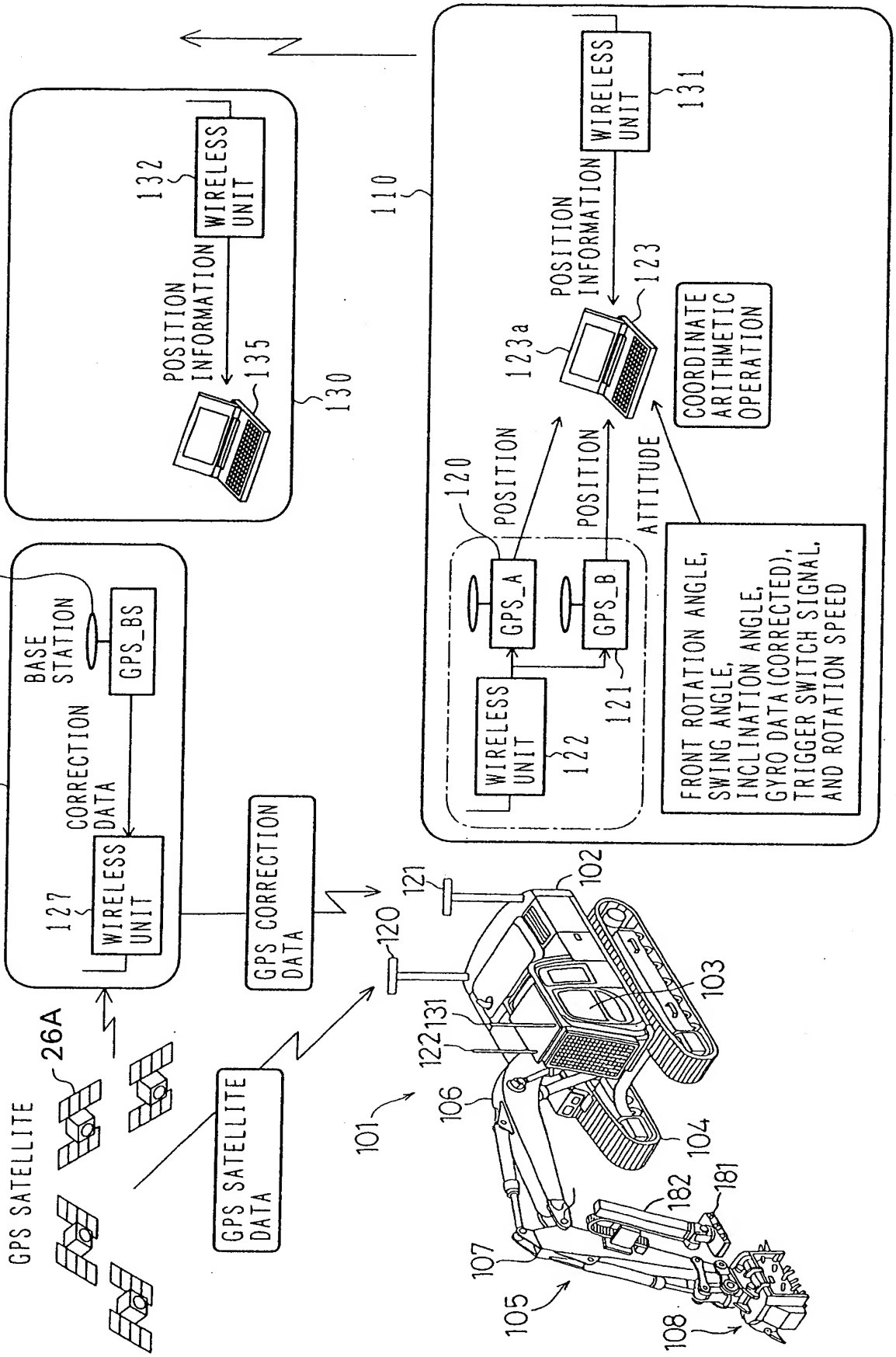
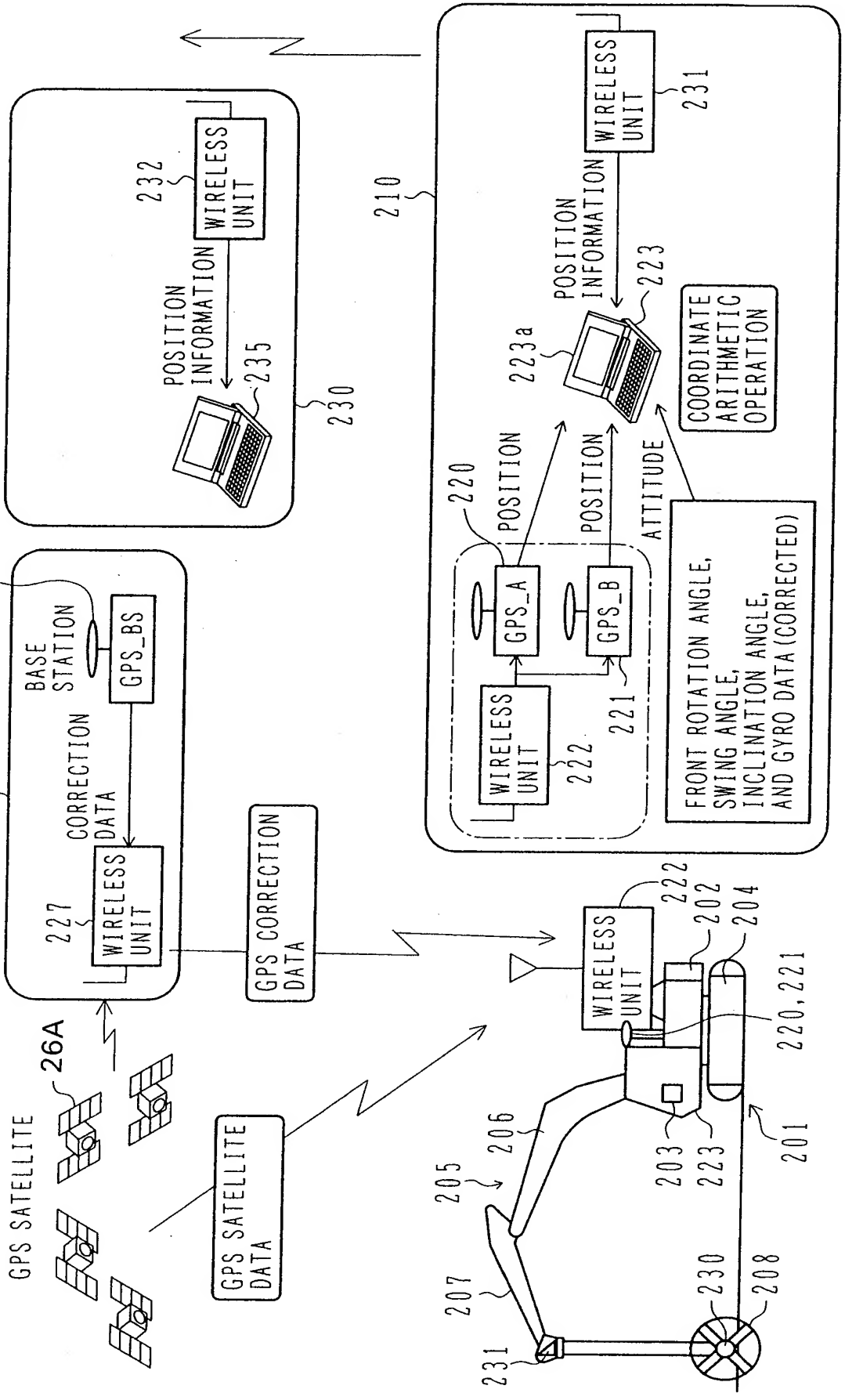

GPS SATELLITE
26A
GPS SATELLITE DATA
GPS CORRECTION DATA
125
126
BASE STATION
GPS_BS
CORRECTION DATA
127
WIRELESS UNIT
130
132
WIRELESS UNIT
POSITION INFORMATION
135
110
WIRELESS UNIT
131
POSITION INFORMATION
123
123a
COORDINATE ARITHMETIC OPERATION
120
POSITION
POSITION
ATTITUDE
GPS_A
GPS_B
WIRELESS UNIT
122
121
FRONT ROTATION ANGLE, SWING ANGLE, INCLINATION ANGLE, GYRO DATA(CORRECTED), TRIGGER SWITCH SIGNAL, AND ROTATION SPEED
101
102
103
104
105
106
107
108
120
121
122
131
181
182

FIG. 13


GPS SATELLITE
26A
GPS SATELLITE DATA
GPS CORRECTION DATA
225
226
BASE STATION
GPS_BS
CORRECTION DATA
227
WIRELESS UNIT
230
232
WIRELESS UNIT
POSITION INFORMATION
235
210
231
WIRELESS UNIT
POSITION INFORMATION
223
223a
COORDINATE ARITHMETIC OPERATION
220
POSITION
POSITION
ATTITUDE
GPS_A
GPS_B
221
222
WIRELESS UNIT
FRONT ROTATION ANGLE, SWING ANGLE, INCLINATION ANGLE, AND GYRO DATA (CORRECTED)
222
202
204
220,221
205
206
203
223
201
207
230
208
231